

## **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025**  
**(Fifth Semester)**

## Branch - ELECTRONICS

## **ELECTRONIC COMMUNICATION – II**

Time: Three Hours

**Maximum: 75 Marks**

**SECTION-A (10 Marks)**

**Answer ALL questions**

**ALL questions carry EQUAL marks**

$$(10 \times 1 = 10)$$

Module No.	Question No.	Question	K Level	CO
1	1	_____ the other name for black and white TV a) Monochrome TV      b) Color TV c) QLED      d) Plasmag	K1	CO1
	2	_____ generator orchestrates the emission of pulse sequences to regulate the system at precise intervals. a) Induction      b) Signal c) Synchronizing      d) Electrical	K2	CO1
2	3	_____ allow microwave to pass in only one direction. a) RF emitter      b) Varactor-triac c) Capacitor      d) Ferrite emitter	K1	CO2
	4	A high power microwave pulse of the order of mega watts can be generated by _____ a) Travelling wave guide      b) Magnetron c) Reflex klystron      d) Gunn diode	K2	CO2
3	5	The transmission medium that exists between the transmitter and the receiver is _____ a) Coaxial cable      b) Waveguide c) Optical fiber cable      d) Wireless	K1	CO3
	6	An optical fiber is composed of _____ material. a) Glass      b) Plastic c) Glass or plastic      d) Copper	K2	CO3
4	7	The satellite employed as a relay to augment communication range is referred to as _____ Satellites a) Relay      b) Communication c) Geosynchronous      d) Repeater	K1	CO4
	8	The transmitter-receiver apparatus within the satellite is referred to as a _____ a) Relay      b) Repeater c) Transponder      d) Duplexer	K2	CO4
5	9	Space diversity is also known as _____ diversity a) Frequency      b) Time c) Antenna      d) Polarization	K1	CO3
	10	MIMO was initially developed in the year _____ a) 1970      b) 1990 c) 1985      d) 1960	K2	CO3

Cont..

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks  $(5 \times 7 = 35)$ 

Module No.	Question No.	Question	K Level	CO
1	11.a.	Elaborate upon the methodologies delineated in the Properties of Colour.  (OR)	K2	CO1
	11.b.	Examine the distinctive characteristics of HDTV.		
2	12.a.	Narrate the operation of Travelling Wave Tubes in Microwave communications.  (OR)	K2	CO2
	12.b.	Identify how the Frequency range covered using in Horn Antenna.		
3	13.a.	Organize the various function of applications and benefits of Fiber.  (OR)	K3	CO3
	13.b.	Categorize the operational principles governing the connectors and splicing.		
4	14.a.	Develop the function analyzed in geosynchronous orbits.  (OR)	K3	CO3
	14.b.	Outline the features of VSAT.		
5	15.a.	Elaborate the issues of interfacing Wireless LAN Standards.  (OR)	K4	CO4
	15.b.	Justify the working input terminals in TV Remote Control.		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks  $(3 \times 10 = 30)$ 

Module No.	Question No.	Question	K Level	CO
1	16	Elucidate the function of the PAL Transmitter and Receiver, accompanied by a well-structured Block Diagram.	K2	CO1
2	17	Detailed about the methodology incorporate in Magnetrons.	K2	CO2
3	18	Illustrate the notification enrolled in Passive Optical Networks.	K3	CO3
4	19	Summarise the importance noted in communication subsystems.	K3	CO3
5	20	Elaborate the characteristics of Multiband OFDM.	K4	CO4